



## Tobyhanna Army Depot Mission and Capabilities Partnering with Industry

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Report Documentation Page			
Report Date 06MAY2002	Report Type N/A	Dates Covered (from to) 06MAY2002 - 07MAY2002	
<b>Title and Subtitle</b> Tobyhanna Army Depot Mission and Capabilities Partnering with Industry			Contract Number
			Grant Number
			Program Element Number
Author(s) Cappellini, Ronald			Project Number
			Task Number
			Work Unit Number
Performing Organization Name(s) and Address(es) Tobyhanna Army Depot			Performing Organization Report Number
Sponsoring/Monitoring Agency Name(s) and Address(es) Department of the Army HQ U.S. Army Communications-Electronics Command and Fort Monmouth Fort Monmouth, NJ 07703-5000			Sponsor/Monitor's Acronym(s)
			Sponsor/Monitor's Report Number(s)
Distribution/Availability Statement Approved for public release, distribution unlimited			
Supplementary Notes  See also ADM001406, non-print version on CD-ROM. Conference briefings from Advance Planning Briefing for Industry(APBI) held May 6-7, 2002., The original document contains color images.			
Abstract			
Subject Terms			
Report Classification unclassified			Classification of this page unclassified
Classification of Abstract unclassified			Limitation of Abstract UU
Number of Pages 24			



#### **Outline**



- Teaming with Industry
- Missions
- Capabilities
  - Engineering
  - Overhaul / Repair
  - System Integration
  - Force Projection
- Summary





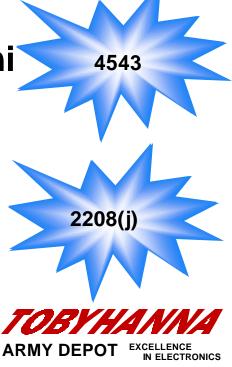
### **Teaming with Industry**



 TYAD actively partners with industry to provide high quality, cost-effective, full service maintenance, fabrication and logistics support for advanced electronics systems.

- Partnerships and Direct Sales
  - Raytheon
  - Lockheed Martin
  - EPS
  - Titan
  - TRW
  - Areojet

- Canadian Marconi
- Lear Siegler
- ARINC
- CSC
- Signal Corp



2474



#### **Teaming with Industry**



- 10 US Code
  - 2474 Center for Industrial and Technical Excellence (CITE)
    - Secretary of Army designated TYAD as the CITE for communications-electronics, radar, avionics, and missile guidance and control
  - 4543 Direct Sales
  - 2208(j) Subcontracting





REPAIR/ OVERHAUL



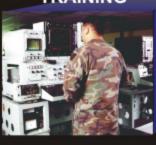
SYSTEMS INTEGRATION

# MISSIONS

HIGH TECH TRAINING

**ENGINEERING** 

**SERVICES** 



FORCE PROJECTION



#### FABRICATION/ MANUFACTURING





### **Engineering Services**



- Maintenance engineering
- Testing methods development and analysis
- Support to PMs and industry developing new systems
- System design, manufacturing and integration
- Configuration management of technical data
- Technical publications (IETMs)

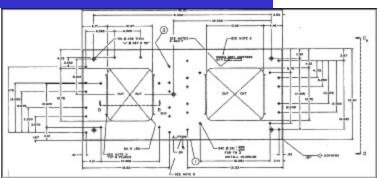


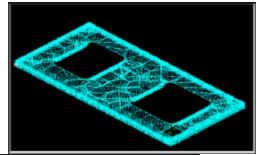


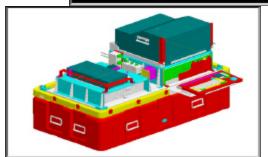
### **Computer Aided Engineering**



- System software
  - PRO-ENGINEER 2000 i2
  - -CADDS 5
  - AUTOCAD 2000 i
  - COSMOS
- 3-D solid parametric modeling
- 3-D project visualization
- Numerical code (NC) generation
- Finite element analysis
- Mechanical & electrical drawings





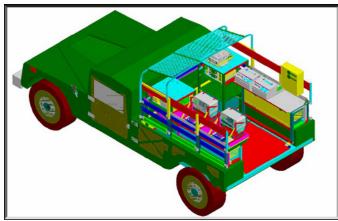


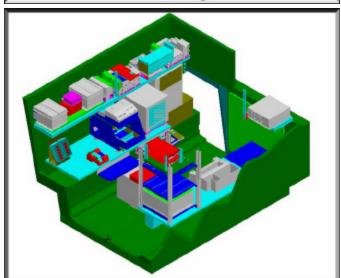




### **Computer Aided Engineering**







Models To Reality











- Radio
- Communications
- SATCOM
- Electro-Optics Night Vision
- Missile (Guidance & Control Electronics)
  - Maverick
  - Sparrow
  - Sidewinder
- Ground Support Equipment













- Avionics
- Air Traffic Control
- Surveillance
- Command, Control and Computers
- Intelligence Electronic Warfare
- Range Threat











### **Systems Integration**



- Prototype development
- Modification / downsizing
- Production
- Technical Data Package development
- System testing
- Fielding support





#### **Systems Integration**

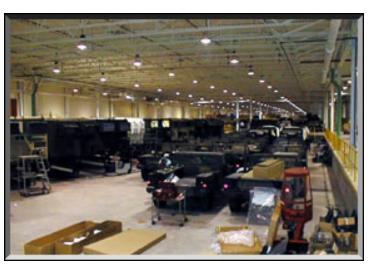


#### **Presses**





**Milling** 



Tactical End Item Repair Facility

#### **Turning**





**Waterjet Cutting** 





# Systems Integration Firefinder



- Member of IPT with Raytheon and SAMD
  - Designed, manufactured, and installed upgrade kits
    - -AN/TPQ-36 Turkey, Egypt, and Portugal
    - -AN/TPQ-37 Singapore
- Teaming with Raytheon
  - Designed and manufactured AN/TPQ-47 Prime Power Group 2208(j)
  - -AN/TPQ-37 upgrade kits
    - -Direct sale (4543) Greece





# Systems Integration Firefinder





AN/TPQ - 37 (V)6



**AN/TPQ - 36 (V)8** 



AN/TPQ - 47 Prime Power Group





## Systems Integration: Fielding Support Balkans Digitization Initiative (BDI)



- Collaborative Effort TYAD with
  - PEO, C3T; QUALCOMM; Kontron Mobile Computing; TRW
- Enhanced Information System (EIS)
  - Vehicle tracking via GPS
  - E-mail capability
  - Satellite based transmit / receive secure data
  - Video displayed maps / geographic locations
  - FBCB2 Situational awareness
- Future initiative "Blue Force Tracking"
  - Adds Raytheon and COMTECH Mobile Datacomm





## Systems Integration: Fielding Support Balkans Digitization Initiative (BDI)







- Fielded
  - U.S. Army Europe (USAREUR) 654
    - Bosnia, Kosovo, Southern European Task Force SETAF)
  - Maintenance support





#### Systems Integration: Fielding Support Brigade Combat Team



- Light Armored Vehicle (LAV) experiment, Ft. Lewis, WA
  - Canadian LAV and German Fauch
    - CECOM RDEC / TYAD team
    - Design, manufacture, integration, and test
    - 33 total systems
    - All designs validated on CAE prior manufacturing
  - Successfully completed by Oct 00
  - Future opportunities 2<sup>nd</sup> and 6<sup>th</sup> Brigades





## Systems Integration: Fielding Support Brigade Combat Team (BCT)









## Force Projection



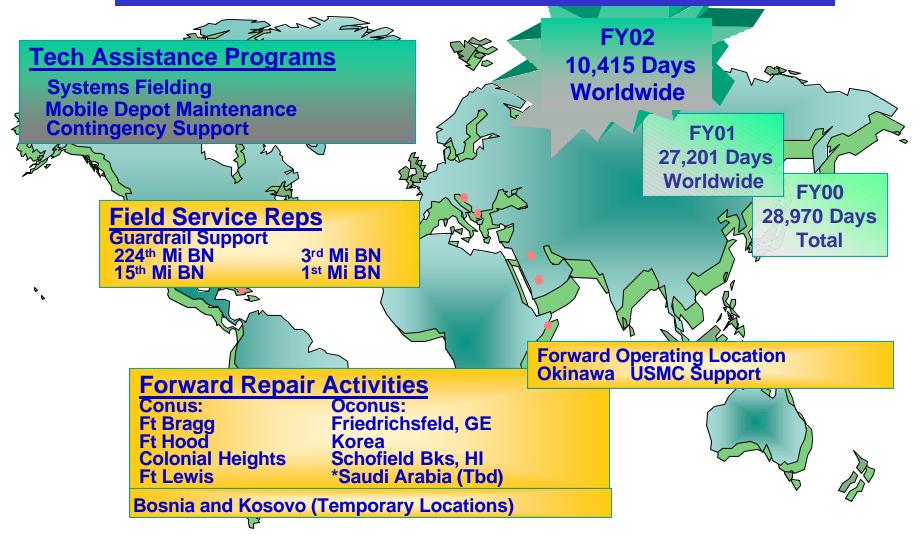






## Force Projection







## Summary



#### TYAD offers industry

- Repair and overhaul capability of all electronic equipment
- Engineering functions include design, manufacturing, repair, and overhaul
- Manufacturing and system integration functions
- Field installation teams
  - -Mobile Depot Maintenance
  - -Technical Assistance
  - -Installations
- Force Projection Presence



